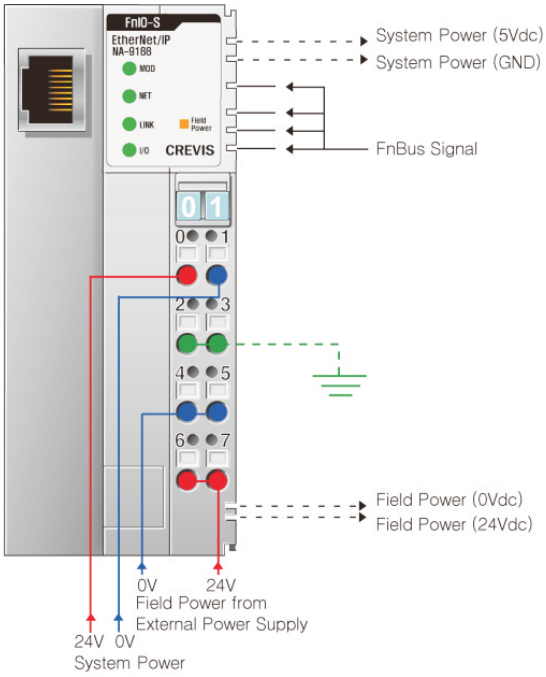
NA-9188

EtherNet/IP Network Adapter, 252 bytes input and 252 bytes output

RJ-45	Signal Name	Description
1	TD+	Transmit +
2	TD−	Transmit −
3	RD+	Receive +
4	−	−
5	−	−
6	RD−	Receive −
7	−	−
8	−	−
Case	Shield	−



EtherNet/IP

Item	NA-9188
Interface Specification	
Adapter Type	Level 2 I/O Server (Explicit, I/O Message)
Max. Expansion Module	32 Slots
Max. Input Size	252 bytes
Max. Output Size	252 bytes
Max. Length Bus Line	Up to 100m from Ethernet Hub/Switch with twisted CAT 3 UTP/STP
Max. Nodes	Limited by Ethernet Specification
Max. Connection	16 I/O message connections 64 CIP connections 64 Explicit message connections
Baud rate	10/100 Mbps, Auto-negotiation, Full duplex
Protocol	Ethernet/IP, BOOTP
Interface Connector	RJ-45 socket
IP-Address Setup	Via BOOTP
Indicator	5 LEDs 1 Green/Red, Module Status (MOD) 1 Green, Network Status (NET) 1 Green, Link/Active Status (LINK) 1 Green/Red Expansion I/O Module Status (I/O) 1 Green, Field Power Status
Module Location	Starter module left side of FnIO system
Field Power Detection	About 11Vdc
General Specification	
System Power	Supply Voltage : 24Vdc nominal Supply Voltage Range : 11~28.8Vdc Protection : Output Current Limit (Min 1.5A) Reverse Polarity Protection
Power Dissipation	60mA Typical @24Vdc
Current for I/O Module	1.5A @5Vdc
Isolation	System power to internal logic : Non-isolation System power to I/O driver : Isolation
Field Power	Supply voltage : 24Vdc nominal Supply voltage range : 11~28.8Vdc
Max. Current Field Power Contact	DC 10A Max.
Weight	150g
Module Size	45mm x 99mm x 70mm
Environment Condition	Refer to " Environment Specification"(page : 1-191)

Status LED Indicator

MOD : Module Status LED

Status	LED is	To indicate
No Power	Off	No power is supplied to the unit.
Device Operational	Green	The unit is operating in normal condition.
Device in Standby	Flashing Green	The device needs commissioning due to configuration missing, incomplete or incorrect.
Minor Fault	Flashing Red	Recoverable Fault – EEPROM sum check error.
Unrecoverable Fault	Red	The device has an unrecoverable fault. – Memory error or CPU watchdog error.

NET : Network Status LED

Status	LED is	To indicate
Not Powered No IP Address	Off	Module is not powered, or does not have an IP address
No Connections	Flashing Green	Module has obtained an IP address, but has no established connections.
CIP Connections	Green	Module has an IP address and at least one established connections.
Connection Time-out	Flashing Red	One or more of the connections in which the module is the target has time out.
Duplicate IP Address	Red	Module has detected that its IP address is already in use. Configure the module with a unique IP address.

LINK : Link / Active Status LED

Status	LED is	To indicate
Not Powered Physical network not ready	Off	May not be powered
Link Operational	Green	Physical Network communication ready
Act Operational	Flashing Green	Some data communication on the base Ethernet 802.3

I/O : Expansion Module Status LED

Status	LED is	To indicate
Not Powered No Expansion Module	Off	Device has no expansion module or may not be powered
Fn-Bus On-line, Do not Exchanging I/O	Flashing Green	Fn-Bus is normal but does not exchange I/O data (Passed the expansion module configuration).
Fn-Bus Connection, Run Exchanging I/O	Green	Exchanging I/O data
Fn-Bus connection fault during exchanging I/O	Red	One or more expansion module occurred in fault state - Changed expansion module configuration - Fn-Bus communication failure
Expansion Configuration Failed	Flashing Red	Failed to initialize expansion module - Detected invalid expansion module ID - Overflowed Input/Output Size - Too many expansion module - Initial protocol failure - Mismatch vendor code between adapter and expansion module.

Field Power : Field Power Status LED

Status	LED is	To indicate
Not Supplied Field Power	Off	Not Supplied 24V dc Field Power
Supplied Field Power	Green	Supplied 24V dc Field Power

Mapping Data into the Image Table